Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (currently amended) A guidewire, comprising:
- a proximal section comprising a metal or metal alloy, the proximal section having a distal end;
- a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end; and
- a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector comprising a <u>metal alloy having a Unified Numbering System (UNS) designation of N06625</u> nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, the connector being adapted and configured for permanently joining the proximal section and the distal section.
- 2. (original) A guidewire as in claim 1, wherein the proximal section has a first flexibility and the distal section has a second flexibility, and wherein the distal end of the proximal section and the proximal end of the distal section overlap to define a region that blends the first flexibility with the second flexibility.
- 3. (original) A guidewire as in claim 1, wherein the distal end of the proximal section has a reduced size, and the proximal end of the distal section has a reduced size.
- 4. (original) A guidewire as in claim 3, wherein the reduced size portions have a uniform profile.
- 5. (currently amended) A guidewire as in claim 3, wherein the reduced size portions have at least one of a taper or wherein the reduced size portions have an interlocking shape.

Application No. 10/086,992
Terminal Disclaimer dated August 1, 2005
Reply to Final Office Action dated June 1, 2005

Disclaimer

The terminal part of the statutory term of any patent granted on the above-identified application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173 of United States Patent No. 6.918.882 as presently shortened by any terminal disclaimer is hereby disclaimed, except as provided below, and it is agreed that any patents so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to United States Patent No. 6.918.882 this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Disclaimant does not disclaim the terminal part of any patents granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of United States Patent No. 6.918.882, as presently shortened by any terminal disclaimer, in the event that either later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued in any matter or is terminated prior to expiration of its full statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

Fee Payment

The Commissioner is hereby authorized to charge the disclaimer fee in the amount of \$130.00 and any additional fees associated with this application or credit any overpayment to Deposit Account No. 50-0413.

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Respectfully submitted, STEPHEN C. JACOBSEN et al.

By their attorney,

Date: Aug. 1 2005

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5. (cancelled)

- 6. (original) A guidewire as in claim 1, wherein the distal end of the proximal section and the proximal end of the distal section are joined to define a butt joint.
- 7. (original) A guidewire as in claim 1, wherein the distal end of the proximal section defines a tapered portion and the proximal end of the distal section defines a tapered portion, and the tapered portions at least partially overlap each other.
- 8. (original) A guidewire as in claim 7, wherein the connector comprises connector material disposed between the tapered portions.
- 9. (previously presented) A guidewire as in claim 1, wherein the connector is welded to the proximal section.
- 10. (previously presented) A guidewire as in claim 9, wherein the metal or metal alloy of the proximal section comprises stainless steel, nickel-titanium alloy, nickel-chromium alloy, nickel-chromium-iron alloy, cobalt alloy, or combinations thereof.
- 11. (original) A guidewire as in claim 10, wherein the proximal section comprises stainless steel.
- 12. (original) A guidewire as in claim 1, wherein the guidewire further includes an outer structure disposed about at least a portion of the distal section.
- 13. (currently amended) A guidewire, comprising: as in claim 12,
 a proximal section comprising a metal or metal alloy, the proximal section having a distal end;
- a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end;

a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector comprising a nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, the connector being adapted and configured for permanently joining the proximal section and the distal section; and

an outer structure disposed about at least a portion of the distal section, wherein the outer structure comprises a polymer sleeve.

- 14. (original) A guidewire as in claim 13 wherein the guidewire further includes a flat ribbon attached to the distal section.
- 15. (original) A guidewire of claim 13, wherein the guidewire further comprises a coil disposed about a portion of the distal section, the coil having a distal portion that extends distally of the distal section.
- 16. (original) A guidewire of claim 12, wherein the outer structure comprises a first coil disposed about a portion of the distal section.
 - 17. (currently amended) A guidewire, comprising: of claim 16,

a proximal section comprising a metal or metal alloy, the proximal section having a distal end;

a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end;

a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector comprising a nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, the connector being adapted and configured for permanently joining the proximal section and the distal section;

an outer structure disposed about at least a portion of the distal section, wherein the outer structure comprises a first coil disposed about a portion of the distal section; and

wherein the guidewire further includes an inner coil disposed about a portion of the distal section at least partially within the first coil, the inner coil having a distal portion that extends distally of the distal section.

- 18. (original) The guidewire of claim 17, wherein the inner coil is adapted and configured to be a safety structure.
 - 19. (currently amended) A guidewire, comprising: as in claim-16,
- a proximal section comprising a metal or metal alloy, the proximal section having a distal end;
- a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end;
- a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector comprising a nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, the connector being adapted and configured for permanently joining the proximal section and the distal section;

an outer structure disposed about at least a portion of the distal section, wherein the outer structure comprises a first coil disposed about a portion of the distal section, and wherein the guidewire further includes a flat ribbon attached to the distal section.

- 20. (cancelled)
- 21. (currently amended) A guidewire, comprising: of claim 1,
- a proximal section comprising a metal or metal alloy, the proximal section having a distal end;
- a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end; and
- a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, wherein the connector comprises a metal alloy having a Unified

Numbering System (UNS) designation of N10276, the connector being adapted and configured for permanently joining the proximal section and the distal section.

- 22. (currently amended) A guidewire, comprising: as in claim 1,
- a proximal section comprising a metal or metal alloy, the proximal section having a distal end;
- a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end; and
- a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, wherein the connector comprises a nickel-molybdenum alloy designated B-2, the connector being adapted and configured for permanently joining the proximal section and the distal section.
- 23. (previously presented) A guidewire of claim 1, wherein the connector is welded to the distal section.
- 24. (original) A guidewire as in claim 1, wherein the connector comprises a tubular member disposed about the distal end of the proximal section and the proximal end of the distal section.
 - 25. (previously presented) A guidewire, comprising:
- a proximal section having a distal end, wherein the distal end of the proximal section includes a flexibility transition region;
- a distal section comprising a linear-elastic nickel-titanium alloy, the distal section having a proximal end, wherein the proximal end of the distal section includes a flexibility transition region; and
- a connector comprising a metal alloy having a Unified Numbering System (UNS) designation of N06625 or N10276, or a nickel-molybdenum alloy designated B-2, the connector being disposed adjacent the distal end of the proximal section and the proximal end

of the distal section, the connector adapted and configured for joining the proximal section to the distal section and is welded to at least the distal section.

- 26. (original) A guidewire as in claim 25, wherein the proximal section has a first flexibility and the distal section has a second flexibility, and wherein flexibility transition regions overlap to define a region that blends the first flexibility with the second flexibility.
- 27. (previously presented) A guidewire as in claim 25, wherein the proximal section comprises stainless steel.
 - 28. (currently amended) A guidewire, comprising: as in claim 25,

a proximal section having a distal end, wherein the distal end of the proximal section includes a flexibility transition region;

a distal section comprising a linear-elastic nickel-titanium alloy, the distal section having a proximal end, wherein the proximal end of the distal section includes a flexibility transition region;

a connector comprising a metal alloy having a Unified Numbering System (UNS) designation of N06625 or N10276, or a nickel-molybdenum alloy designated B-2, the connector being disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector adapted and configured for joining the proximal section to the distal section and is welded to at least the distal section; and

wherein the guidewire further includes a polymer sleeve disposed about a portion of the distal section.

29. (original) A guidewire of claim 28, wherein the guidewire further includes a coil disposed about a portion of the distal section, the coil having a distal portion that extends distally of the distal section.

30. (currently amended) A guidewire, comprising: of claim 25,

a proximal section having a distal end, wherein the distal end of the proximal section includes a flexibility transition region;

a distal section comprising a linear-elastic nickel-titanium alloy, the distal section having a proximal end, wherein the proximal end of the distal section includes a flexibility transition region:

a connector comprising a metal alloy having a Unified Numbering System (UNS) designation of N06625 or N10276, or a nickel-molybdenum alloy designated B-2, the connector being disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector adapted and configured for joining the proximal section to the distal section and is welded to at least the distal section; and

wherein the guidewire further includes a first coil disposed about a portion of the distal section.

- 31. (original) A guidewire of claim 30, wherein the guidewire further includes an inner coil disposed about a portion of the distal section at least partially within the first coil, the inner coil having a distal portion that extends distally of the distal section.
- 32. (original) The guidewire of claim 31, wherein the inner coil is adapted and configured to be a safety structure.
- 33. (previously presented) A guidewire as in claim 25, wherein the connector comprises a tubular member.
- 34. (original) A guidewire as in claim 25, wherein at least a portion of the connector is disposed between the flexibility transition regions.

35-37. (cancelled)

38. (currently amended) A method of manufacturing a guidewire, comprising the steps of: as in claim 36,

providing a proximal section having a distal end;

providing a distal section comprising a linear elastic nickel-titanium alloy, the distal section having a proximal end;

forming flexibility transition regions in the distal end of the proximal section and the proximal end of the distal section; and

connecting the distal end of the proximal section and the proximal end of the distal section using a connector, the connector comprising a nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, wherein the connector is welded to the distal section, and wherein the connector is adapted and configured for permanently joining the proximal section to the distal section;

wherein the step of connecting the distal end of the proximal section and the proximal end of the distal section includes overlapping the proximal and distal ends.

39-53. (cancelled)

54. (previously presented) A guidewire, comprising:

a core wire having a proximal section having a distal end, and a distal section having a proximal end and a distal end, the distal section including a linear elastic nickel-titanium alloy;

a connector disposed adjacent the distal end of the proximal section and the proximal end of the distal section, the connector joining the proximal section to the distal section, the connector comprising a nickel-chromium alloy, a nickel-molybdenum alloy, or a cobalt alloy, the connector being welded to at least the distal section;

an inner coil having a proximal region and a distal region, the proximal region of the coil connected to the distal end of the distal section, and the distal region of the coil extending distally beyond the distal end of the distal section; and

an outer structure disposed about at least a portion of the distal section and the inner coil.

- 55. (original) A guidewire as in claim 54, wherein the outer structure is a polymer sheath.
- 56. (currently amended) A guidewire as in claim 55, wherein the polymer sheath extends distally beyond the distall region of the coil to form a tip.
 - 57. (original) A guidewire of claim 54, wherein the outer structure is an outer coil.
 - 58. (original) A guidewire as in claim 54, wherein the inner coil is a flat wire coil.